CHEROKEE NATION Environmental Programs



Asbestos Sampling Report

PARTICIPANT: CHILSON, JUANITA

PREPARED BY: DATE: 7/31/2025

TIMOTHY MILLER, ENVIRONMENTAL SPECIALIST I

REQUESTED BY: HACN HOUSING REHABILITATION –

JAMIE WALTERS

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I. Site Inspection/Description

Cherokee Nation Environmental Programs (CNEP) has conducted asbestos sampling for the presence of asbestos containing materials (ACM) for the following site:

Juanita Chilson 2084 Riverview Dr. Tahlequah, OK 74464 918-708-5052 Coordinates: 35.91266, -94.93681

The sampling was performed to determine the presence of all ACM from within the affected parts of the structure for EPA's National Emissions of Hazardous Air Pollutants (NESHAP) compliance as well as OSHA worker protection.

The inspector responsible for this project was:

Timothy Miller, AHERA Inspector

The sampling was conducted on July 24, 2025 at the request of the Cherokee Nation Housing Rehabilitation Department.

The site is a single family home built in 1976. Sampling was limited to areas that would be affected by the project scope of work (Appendix A) provided by the housing rehabilitation department.

ACM was found at this site. See Section IV for locations.

II. BACKGROUND

The Oklahoma Department of Environmental Quality (ODEQ) has adopted EPA's NESHAP regulation under OAC252:100, 41-15 and has been delegated authority in the state of Oklahoma for its enforcement. Section 61.145(a) of Federal EPA regulation states that prior to commencement of the demolition or renovation of a facility a thorough inspection of the affected part or parts of a facility is required to determine the presence of all asbestos including Category I and Category II non-friable, and friable ACM. ACM is defined by EPA and OSHA as any material that contains greater than 1% asbestos.

III. FIELD PROCEDURES AND ANALYTICAL METHODS

During the on-site inspection, we visually assessed the physical characteristics of suspect asbestos-containing materials (SACM) based on homogeneous areas. Homogeneous areas are areas of asbestos similar in color, texture, and construction, date of application, and in general

appearance. For purposes of renovation and demolition, homogeneous areas of SACM can be further classified according to NESHAPs rules by whether the material is friable, Category I non-friable, or Category II non-friable.

<u>Friable ACM</u> is defined by NESHAPs rules as any material containing more than 1% asbestos as determined by Polarized Light Microscopy (PLM), that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

<u>Category I Non-friable ACM</u> is defined by NESHAPs rules as any asbestos-containing packings, gaskets, construction mastics, resilient floor covering (i.e. floor tiles, roll sheet flooring) or asphalt roofing products that contain more than 1% asbestos as determined by PLM.

<u>Category II Non-friable ACM</u> is defined by NESHAPs rules as any material, excluding Category I non-friable ACM, containing more than 1% asbestos as determined by PLM, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Typically, non-friable materials, such as transite (cementious products) and vinyl floor tiles are not regulated by the State of Oklahoma provided they do not become friable. General deterioration, machine grinding, drilling, sanding, and dry-buffing are all ways of causing non-friable materials to become classified as Regulated Asbestos Containing Materials (RACM). All friable materials are classified RACM. Please note that the following materials, even though classified as non-friable are fully regulated by Oklahoma Department of Labor for removal purposes as friable material: ceiling tiles, roll sheet flooring (linoleum), and joint wall compound when deemed friable

In addition to classification of suspect material into friable and non-friable materials, a determination of current condition was conducted as part of the physical assessment. The condition noted is the representative of the material at the time of inspection. Conditions of materials can change very quickly when disturbed. All suspect material was placed in one of the following categories of condition.

<u>Significantly damaged</u>: Material that is damaged, blistered, deteriorated, water stained over at least 10% of its total area.

<u>Damaged</u>: Material that is damaged, blistered, deteriorated, water stained less than 10% of its total area.

Good: Material that has no visible damage or deterioration.

Guidelines used for the number of samples collected per homogeneous area were determined using the Asbestos Hazard Emergency Response Act (AHERA) protocol promulgated in 40 CFR 763, Appendix E as follows:

Surfacing materials – material that is sprayed or troweled on wall, ceilings, or support columns for fireproofing, acoustical, or even decorative purpose.

- Less than 1000 ft2 Minimum 3 samples
- From 1000-5000 ft2 Minimum 5 samples
- Greater than 5000 ft2 Minimum 7 samples

Thermal System Insulation (TSI) materials – thermal system insulation material applied to tanks, boiler, pipes or other structural component for an insulating purpose.

- May omit areas of fibrous glass, foam glass, rubber, and Styrofoam form sampling. Areas that have mastic on seams or outer jacketing will be sampled.
- At least three samples must be collected from each homogeneous area of TSI.
- Plus an additional sample from each patched area of less than 6 linear feet.
- Fittings require a sufficient amount to determine positive or negative nature.
- Inspector will first collect samples from damaged areas, exposed ends, or areas missing jacketing first.

Miscellaneous materials – all other material that are not thermal system insulation or surfacing materials. This includes gaskets, packings, joint wall compound, cementious asbestos materials, ceiling tiles resilient flooring materials, construction mastics, etc..

- May assume and document as such
- A sufficient amount of samples to determine negative or positive nature. A minimum or one per suspect homogeneous area.
- Collect samples from inconspicuous locations.
- Material such as cementious asbestos or vibration dampening cloths should not be sampled and will be assumed ACM unless instructed by client to collect these samples.

Bulk samples of suspect ACM were analyzed by Polarized Light Microscopy (PLM) in accordance with EPA Methods 600R-93/116. All samples were sent to a NVLAP accredited laboratory for analysis. QuanTEM Laboratories, LLC (NVLAP # 101959-0) in Oklahoma City, OK analyzed the samples. A copy of the full laboratory report and chain of custody can be found in Appendix B.

IV. SUMMARY OF FINDINGS

A total of 29 samples were analyzed from 11 homogeneous areas due to multi-layers of material within some homogeneous sample areas. All accessible and observable areas within the renovation area were sampled for ACM. Samples were not taken of suspect materials that may have placed the inspector at risk of injury (i.e. electrical panel boxes). Any suspect ACM that have not been tested and/or found positive for asbestos must be assumed ACM until they are analyzed. Upon review of laboratory analysis, the following asbestos containing materials can be found in Table 1. All suspect ACM samples that were analyzed and did not contain asbestos can be found in Table 2.

Table 1. As	sbestos Containing Materi	als			
Sample #	Material Description	Locations	Friability (Friable, NF Cat I NF Cat II)	Condition	Sample Results (% Asbestos)
01-01 Through 01-05	Wall Texture	Den, Living Room, Dining Room, Kitchen, Hall	Friable	Damaged	3
08-01 Through 08-03	Ceiling Texture	Bathroom 1	Friable	Damaged	3

Table 2. N	on – Asbestos Containing M	laterials		
Sample #	Material Description	Locations	Condition	Sample Results (% Asbestos)
02-01	Clear Caulk	Dining Room Sliding Door	Good	None Detected
03-01	Tan Roll Sheet Flooring	Den	Damaged	None Detected
04-01 Through 04-03	Wall Texture	Bathroom 1	Damaged	None Detected
05-01	Floor Tile	Bathroom 1	Damaged	None Detected
06-01	Caulk	Bathroom 1 Sink	Damaged	None Detected
07-01	Joint Compound Patch	Bathroom 1 Partition Wall	Damaged	None Detected
09-01	Roll Sheet Flooring	Dining Room	Damaged	None Detected
10-01	Caulk	Dining Room Chimney	Damaged	None Detected
11-01	Caulk	Exterior Den Door	Damaged	None Detected

V. CONCLUSIONS

Asbestos is not always an immediate hazard. Intact and undisturbed ACM does not pose a health risk. They may, however become a health hazard if they are damaged, disturbed, or deteriorate over time and release fibers into the air. There are no federal, state, or Tribal laws mandating asbestos removal. It is only when the material can no longer be maintained in good condition and/or airborne concentrations of asbestos are measured and found to be above a permissible exposure limit (PEL), or when the building is to be demolished or renovated, that removal may become necessary. Any renovation/demolition work which may impact these positive materials should be conducted in accordance with all applicable Federal, state, and local regulations.



Polarized Light Microscopy Asbestos Analysis Report

OuanTEM Lab No. 381352

Account Number:

C162

Date Received:

07/28/2025

Received By:

Charlie Johnson

Date Analyzed:

Analyzed By: Methodology: 07/30/2025

Cassie Sanborn

EPA/600/R-93/116

Client: Cherokee Nation Environmental Programs

Timothy Miller

Project: Juanita Chilson

Project Location: Tahlequah

Project Number: NA

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	01-01	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
001a		Layered	White Drywall	Asbestos Not Present	Cellulose	10 Gypsum
002	01-02	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
002a		Layered	White Drywall	Asbestos Not Present	Cellulose	10 Gypsum
003	01-03	Layered	Tan Texture	Asbestos Present Chrysotile 3	NA	CaCO3 Paint
003a		Layered	White Drywall	Asbestos Not Present	Cellulose	10 Gypsum
004	01-04	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

QuanTEM is a NVLAP accredited Testing PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA—40 CFR Appendix E to Subpart E of Part 763 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 381352

C162

Client: Cherokee Nation Environmental Programs

Timothy Miller

Account Number: Date Received:

07/28/2025

Received By:

Charlie Johnson

Date Analyzed:

07/30/2025

Analyzed By:

Cassie Sanborn

Project: Juanita Chilson

Project Location: Tahlequah Project Number: NA

Methodology:

EPA/600/R-93/116

Color /

Non-Ashestos

Non Fibrous

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
004a		Layered	White Drywall	Asbestos Not Present	Cellulose 10	Gypsum
005	01-05	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
005a		Layered	White Drywall	Asbestos Not Present	Cellulose 10	Gypsum
006	02-01	Homogeneous	Clear Caulk	Asbestos Not Present	NA	Silicone
007	3-01	Homogeneous	Tan Sheet Vinyl	Asbestos Not Present	Glass Fiber	6 CaCO3 Foam Vinyl
008	04-01	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3

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Account Number:

C162

Timothy Miller

Date Received:

07/28/2025

Received By:

Charlie Johnson

Date Analyzed:

07/30/2025

Project: Juanita Chilson

Analyzed By: Methodology: Cassie Sanborn EPA/600/R-93/116 Project Location: Tahlequah Project Number: NA

Color / Non-Asbestos Non Fibrous QuanTEM Client Fiber (%) Sample ID Sample ID Composition Description Asbestos (%) NA CaCO3 White Asbestos Not Present 009 04-02 Layered Paint Texture Asbestos Not Present Cellulose 10 Gypsum 009a Layered White Drywall CaCO3 Asbestos Not Present NA 010 04-03 White Homogeneous Texture Clay 011 05-01 Layered Brown Asbestos Not Present NA Sand Tile CaCO3 NA Layered Dark Brown Asbestos Not Present 011a Sand Grout CaCO3 NA Gray Asbestos Not Present 011b Layered Sand Mortar Binder CaCO3 NA 012 06-01 Homogeneous White Asbestos Not Present Binder Caulk

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Polarized Light Microscopy Asbestos Analysis Report

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Account Number:

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07/28/2025

Received By:

Charlie Johnson

Date Analyzed:

07/30/2025

Analyzed By:

Cassie Sanborn

Methodology:

EPA/600/R-93/116

Client: Cherokee Nation Environmental Programs

Timothy Miller

Project: Juanita Chilson

Project Location: Tahlequah

Project Number: NA

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
013	07-01	Homogeneous	White Joint Compound	Asbestos Not Present	NA	CaCO3
014	08-01	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Foam Paint
014a		Layered	Tan Texture	Asbestos Present Chrysotile 3	NA	CaCO3 Paint
015	08-02	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3
016	08-03	Layered	Tan Texture	Asbestos Present Chrysotile 3	NA	CaCO3 Paint
016a		Layered	Tan Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3

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Date Received:

07/28/2025

Received By:

Charlie Johnson

Date Analyzed:

07/30/2025

Project: Juanita Chilson

Analyzed By:

Cassie Sanborn

Project Location: Tahlequah

Methodology:

EPA/600/R-93/116

Project Number: NA

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
017	09-01	Homogeneous	Brown Mastic	Asbestos Not Present	NA	Glue CaCO3
018	10-01	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
019	11-01	Homogeneous	White Caulk	Asbestos Not Present	NA	CaCO3 Binder
	Cassie Sanl	od		7/30/2025		

Cassie Sanborn, Laboratory Analyst

Date of Report



ASBESTOS CHAIN OF CUSTODY

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Report Results (☑ one box) Fmail timothy-millen@cherokee.c DATE & TIME QuanTEM Website Other RECEIVED BY Project Information Juanita Chilson Project Location: Tahlequah 896007 Project Name: P.O. Number: Project ID: VIA E-mail: timothy-miller@cherokee.org (918) 207-4934 cell Phone: (918) 570-9545 Date: 07/24/2025 DATE & TIME Phone: Cherokee Nation Environmental Programs Contact Information SAMPLED BY: Name: Timothy Miller RELINQUISHED BY **Timothy Miller** Account #: C 162 Company: Contact

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-	01-01	5	Gray		Wall 1	Wall Texture			Den, LR, Dining, Kitchen, Hall	, Kitchen, Hall	
7	01-02	>	Red		Wall 1	Wall Texture			Den, LR, Dining, Kitchen, Hall	, Kitchen, Hall	
m	01-03	>	Red		Wall 1	Wall Texture			Den, LR, Dining, Kitchen, Hall	, Kitchen, Hall	
4	01-04	$\overline{\Sigma}$	White		Wall	Wall Texture			Den, LR, Dining, Kitchen, Hall	, Kitchen, Hall	
2	01-05	$\overline{\Sigma}$	White		Wall	Wall Texture			Den, LR, Dining, Kitchen, Hall	, Kitchen, Hall	T
9	02-01	$\overline{\Sigma}$	Clear		Ö	Caulk			Dining Door Interior	or Interior	
7	03-01	$\overline{\Sigma}$	Tan		Roll She	Roll Sheet Flooring			Den	L	
∞	04-01	>	White		Wall	Wall Texture			Bathroom 1	om 1	
6	04-02	>	White		Wall	Wall Texture			Bathroom 1	om 1	
10	04-03	>	White		Wall	Wall Texture			Bathroom 1	om 1	
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SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup'

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Company:		on Environn	Cherokee Nation Environmental Programs		Project Name: Juanita Chilson	Project Location:	Project Location: Tahlequah
No.	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color		Description	Volume / Area (as applicable)	Comments / Notes
11	05-01	<u> </u>	Brown		Tile		Bathroom 1
12	06-01	>	White		Caulk Sink		Bathroom 1
13	07-01	>	White		Joint Compound		Bathroom 1 Partition Wall Repair
14	08-01	>	White		Ceiling Texture		Bathroom 1
15	08-02	>	White		Ceiling Texture		Bathroom 1
16	08-03	>	White		Ceiling Texture		Bathroom 1
17	09-01	>	Brown		Roll Sheet Flooring		Dining Room
18	10-01	>	White		Caulk		Dining Room Chimney
19	11-01	>	White		Caulk		Den Door Exterior
20							
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